

Product datasheet for **MG224149**

Rnd1 (NM_172612) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rnd1 (NM_172612) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rnd1
Synonyms: A830014L09Rik; Arhs
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224149 representing NM_172612
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGAGAGACGGGCACCGCAGCCAGTGGTGGTCAGGTGTAAGCTCGTCCTGGTGGGAGACGTGCAGT
GTGGGAAGACGGCGATGTTACAGGTGCTAGCGAAAGACTGCTATCCCAGACCTATGTGCCTACCGTGT
TGAGAATTACACAGCCTGTTGGAGACAGAGGAACAGAGAGTGGAGCTTAGTCTCTGGGACACCTCAGT
TCTCCTACTATGACAAATGTTCCGCTCTGCTACAGCGACTCAGATGCGGTATTGCTGTGCTTTGACA
TCAGCCGTCCAGAGACCATGGACAGTGCCTCAAGAAGTGGAGAACAGAAATCCTAGACTACTGTCCCAG
CACACGTGTTTTGCTTATTGGCTGCAAGACAGATCTTGAACAGACCTGAGCACTCTAATGGAAGTGTCC
CACCAGAAGCAGGCACCCATCTCCTACGAGCAGGGCTGTGCGATAGCCAAGCAGTTGGGCGCAGAAATCT
ACCTGGAGGGCTCGGCTTCACTTCCGAGACAAGCATCCACAGCATTTTCCGGACAGCATCCATGGTGTG
TCTGAACAAGTCTAGCCAGTGCCTCCGAGAGCCCGTCCGAAGCCTTTCCAAGCGACTCTCCACCTC
CCCAGTCGCTCTGAATCATCTCAACTACATTCAAGAAGGAAAAGGCCAAAAGCTGTTCCATCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224149 representing NM_172612
Red=Cloning site Green=Tags(s)

MKERRAPQPVVVRCKLVLVGDVQCGKTAMLQVLAKDCYPETYVPTVFENYTACLETEEQRVELSLWDTSG
 SPYYDNVRPLCYSDSDAVLLCFDISRPETMDSALKKWRTEILDYCPSTRVLLIGCKTDLRTDLSTLMELS
 HQKQAPISYEQGCAIAKQLGAEIYLEGSAFTSETSIHSIFRTASMVCLNKSSPVPPKSPVRSLSKRLLHL
 PSRSELISTTFKKEKAKSCSIM

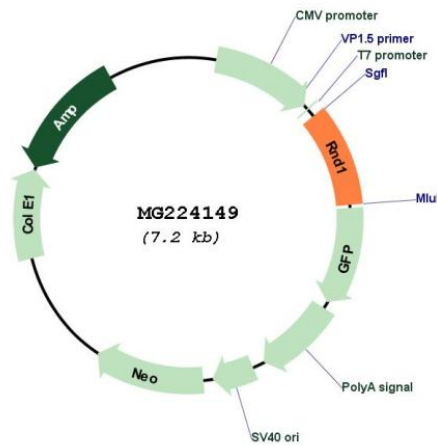
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_172612

ORF Size: 696 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_172612.3 , NP_766200.1
RefSeq Size:	2203 bp
RefSeq ORF:	699 bp
Locus ID:	223881
UniProt ID:	Q8BLR7
Cytogenetics:	15 F1
Gene Summary:	Lacks intrinsic GTPase activity. Has a low affinity for GDP, and constitutively binds GTP. Controls rearrangements of the actin cytoskeleton. Induces the Rac-dependent neuritic process formation in part by disruption of the cortical actin filaments. Causes the formation of many neuritic processes from the cell body with disruption of the cortical actin filaments (By similarity).[UniProtKB/Swiss-Prot Function]